

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): An elevator door apparatus comprising:

an elevator door configured to move between a door closure position that closes an elevator entrance, a first open door position that opens the elevator entrance to a first open door width, a second open door position that opens the elevator entrance to a second open door width greater than the first open door width, and a fully open door position that opens the elevator entrance to a fully open door width greater than the second open door width;

a timer configured to produce time information;

a door drive device configured to drive the elevator door; and

a door control device configured to store time information and corresponding door opening position information, select one of the first, second, and fully open door positions based on control information for controlling an operation of an elevator including the stored door opening position information that corresponds to the time information produced by the timer, and control the door drive device to stop moving the elevator door at the selected door open position.

Claim 2 (Previously Presented): An elevator door apparatus according to Claim 1, further comprising:

a weighing device configured to generate a weight signal in accordance with a size of a weight load in a car and produce, based on the weight signal, weight information that is input to the door control device as the control information; and

the door control device is further configured to select one of the first and second open door positions as the selected door open position based on the weight information in the control information.

Claim 3 (Previously Presented): An elevator door apparatus according to Claim 1, further comprising:

a plurality of destination buttons provided in an inside of a car each configured to designate a destination floor;

a call request button provided in a landing;

an operation device configured to generate a door open position request provided in at least one of an inside of a car and a landing;

the door open position request is input to the door control device as the control information; and

the door control device is further configured to select a door open position based on the door open position request in the control information.

Claim 4 (Previously Presented): An elevator door apparatus according to Claim 1, further comprising:

a stop floor detecting sensor configured to detect a floor at which the car is stopped and produce, based on the detected floor, stop floor information that is input to the door control device as the control information; and

the door control device is further configured to select one of the first and second open door positions as the selected door open position based on the stop floor information in the control information.

Claim 5 (Currently Amended): An elevator door apparatus ~~according to Claim 1,~~
~~further comprising:~~

an elevator door configured to move between a door closure position that closes an elevator entrance, a first open door position that opens the elevator entrance to a first open door width, a second open door position that opens the elevator entrance to a second open door width greater than the first open door width, and a fully open door position that opens the elevator entrance to a fully open door width greater than the second open door width;

a door drive device configured to drive the elevator door;

a door control device configured to select one of the first, second, and fully open door positions based on control information for controlling an operation of an elevator, and control the door drive device to stop moving the elevator door at the selected door open position;

a timer configured to produce time information that is input to the door control device as the control information; and

the door control device is further configured to store correspondence information indicating a correspondence between each of plural predetermined time periods and one of the first and second open door positions, and select one of the first and second open door positions as the selected door open position based on a time period to which the time information indicated by the timer belongs and the corresponding stored door position.

Claim 6 (Previously Presented): An elevator door apparatus according to Claim 1, further comprising:

a remote information receiver configured to receive remote information from an elevator operation control room, the remote information is input to the door control device as the control information; and

the door control device is further configured to select one of the first and second open door positions as the selected door open position based on the remote information in the control information.

Claim 7 (Currently Amended): An elevator door apparatus ~~according to Claim 1,~~
~~further~~ comprising:

an elevator door configured to move between a door closure position that closes an elevator entrance, a first open door position that opens the elevator entrance to a first open door width, a second open door position that opens the elevator entrance to a second open door width greater than the first open door width, and a fully open door position that opens the elevator entrance to a fully open door width greater than the second open door width;

a door drive device configured to drive the elevator door;

a door control device configured to select one of the first, second, and fully open door positions based on control information for controlling an operation of an elevator, and control the door drive device to stop moving the elevator door at the selected door open position;

an abnormality detecting sensor configured to detect an abnormality that prevents the elevator door from opening beyond an abnormally limited position and, based on the detected abnormality, to produce abnormality information that is input to the door control device as the control information; and

the door control device is further configured to select the abnormally limited position as the selected door open position based on the abnormality information in the control information.

Claim 8 (Previously Presented): The elevator door apparatus according to Claim 1, wherein the door control device is further configured to obtain a door opening speed pattern identifying a variable speed versus time relationship of moving the elevator door between the door closure position and the selected door open position, and control the door drive device to

control a moving speed of the elevator door according to the obtained door opening speed pattern.

Claim 9 (Previously Presented): An elevator door apparatus according to Claim 3, wherein the operation device includes a full open request button and a partial open request button.

Claim 10 (Previously Presented): An elevator door apparatus according to Claim 4, wherein the door control device is further configured to select the second door open position when the stop floor detecting sensor detects that the car is stopped at a lobby floor of a building.

Claim 11 (Currently Amended): An elevator door apparatus comprising:
an elevator door configured to move between a door closure position that closes an elevator entrance, a partially open door position that opens the elevator entrance to a partially open door width, and a fully open door position that opens the elevator entrance to a fully open door width greater than the partially open door width;
a door drive device configured to drive the elevator door;
an operation device configured to generate a door open position request provided in at least one of an inside of a car and a landing, the operation device including a full open request button and a partial open request button; and
a door control device configured to select one of the partially open door position and the fully open door position based on control information for controlling an operation of an elevator including the door open position request; and

~~the door control device is further configured, when the partially open door position is selected, to adjust the partially open door width of the partially open door position based on the control information, and control the door drive device to stop moving the elevator door at the adjusted partially open door width.~~

Claim 12 (Previously Presented): An elevator door apparatus according to Claim 11, wherein the door control device is further configured to obtain a door opening speed pattern identifying a variable speed versus time relationship of moving the elevator door between the door closure position and the adjusted partially open door width, and control the door drive device to control a moving speed of the elevator door according to the obtained door opening speed pattern.

Claim 13 (Previously Presented): An elevator door apparatus according to Claim 11, further comprising:

a weighing device configured to generate a weight signal in accordance with a size of a weight load in a car and produce, based on the weight signal, weight information that is input to the door control device as the control information; and

the door control device is further configured to adjust the partially open door width, based on the weight information in the control information, to be closer to the fully open door width when the weight load in the car increases and adjust the partially open door width to be closer to the door closure position when the weight load inside the car decreases.

Claim 14 (Currently Amended): An elevator door apparatus ~~according to Claim 11,~~
~~further comprising:~~

an elevator door configured to move between a door closure position that closes an elevator entrance, a partially open door position that opens the elevator entrance to a partially open door width, and a fully open door position that opens the elevator entrance to a fully open door width greater than the partially open door width;

a door drive device configured to drive the elevator door;

a door control device configured to select one of the partially open door position and the fully open door position based on control information for controlling an operation of an elevator;

the door control device is further configured, when the partially open door position is selected, to adjust the partially open door width of the partially open door position based on the control information, and control the door drive device to stop moving the elevator door at the adjusted partially open door width;

a plurality of destination buttons provided in an inside of a car each configured to designate a destination floor;

a call request button provided in a landing;

an operation device configured to generate a door open position request provided in at least one of an inside of a car and a landing, the operation device including a full open request button and a partial open request button;

the door open position request is input to the door control device as the control information; and

the door control device is further configured to adjust the partially open door width based on the door open position request in the control information.

Claim 15 (Previously Presented): An elevator door apparatus according to Claim 1, further comprising:

a stop floor detecting sensor configured to detect a floor at which the car is stopped and produce, based on the detected floor, stop floor information that is input to the door control device as the control information; and

the door control device is further configured to adjust the partially open door width based on the stop floor information in the control information.

Claim 16 (Previously Presented): An elevator door apparatus according to Claim 15, wherein the door control device is further configured to adjust the partially open door width to be closer to the fully open door width when the stop floor detecting sensor detects that the car is stopped at a lobby floor of a building.

Claim 17 (Currently Amended): An elevator door apparatus ~~according to Claim 11,~~
~~further~~ comprising:

an elevator door configured to move between a door closure position that closes an elevator entrance, a partially open door position that opens the elevator entrance to a partially open door width, and a fully open door position that opens the elevator entrance to a fully open door width greater than the partially open door width;

a door drive device configured to drive the elevator door;

a door control device configured to select one of the partially open door position and the fully open door position based on control information for controlling an operation of an elevator;

the door control device is further configured, when the partially open door position is selected, to adjust the partially open door width of the partially open door position based on the control information, and control the door drive device to stop moving the elevator door at the adjusted partially open door width;

a timer configured to produce time information that is input to the door control device as the control information; and

the door control device is further configured to store correspondence information indicating a correspondence between each of plural predetermined time periods and plural open door positions, and adjust the partially open door width based on a time period to which the time information indicated by the timer belongs and the corresponding stored open door position.

Claim 18 (Previously Presented): An elevator door apparatus according to Claim 11, further comprising:

a remote information receiver configured to receive remote information from an elevator operation control room, the remote information is input to the door control device as the control information; and

the door control device is further configured to adjust the partially open door width based on the remote information in the control information.

Claim 19 (Currently Amended): An elevator door apparatus ~~according to Claim 11,~~ further comprising:

an elevator door configured to move between a door closure position that closes an elevator entrance, a partially open door position that opens the elevator entrance to a partially open door width, and a fully open door position that opens the elevator entrance to a fully open door width greater than the partially open door width;

a door drive device configured to drive the elevator door;

a door control device configured to select one of the partially open door position and the fully open door position based on control information for controlling an operation of an elevator;

the door control device is further configured, when the partially open door position is selected, to adjust the partially open door width of the partially open door position based on the control information, and control the door drive device to stop moving the elevator door at the adjusted partially open door width;

an abnormality detecting sensor configured to detect an abnormality that prevents the elevator door from opening beyond an abnormally limited position and, based on the detected abnormality, to produce abnormality information that is input to the door control device as the control information; and

the door control device is further configured to adjust the partially open door width to be the abnormally limited position based on the abnormality information in the control information.

Claim 20 (Currently Amended): A method of operating an elevator door apparatus, the method comprising:

moving an elevator door from a door closure position that closes an elevator entrance to one of a first open door position that opens the elevator entrance to a first open door width, a second open door position that opens the elevator entrance to a second open door width greater than the first open door width, and a fully open door position that opens the elevator entrance to a fully open door width greater than the second open door width;

generating a door open position request from an operation device provided in at least one of an inside of a car and a landing, the operation device including a full open request button and a partial open request button; and

selecting one of the first, second, and fully open door positions based on control information for controlling an operation of an elevator including the door open position request; and

controlling the elevator door to stop moving at the selected door open position.